

	UCC Course Number/Title		Credits	Terms	Prerequisites/Notes	Online available 2020	Online available 2021
Term 1	CS 160	Orientation to Computer Science	4	F	MTH 095	Yes	Yes
	WR 121	Academic Composition*	4	F, W, S, SU	WR 115, RD 90 each with a grade of C or better, or appropriate placement test scores or placement by multiple measures; and basic computer word processing skills	Yes	Yes
	Elective	Approved Elective	4	F, W, S, SU	See Advisor	Yes	Yes
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
15							
Term 2	CS 161	Computer Science I	4	W	MTH 111 or equivalent	No	Yes
	MTH 251	Calculus I	5	F, W	MTH 112 or with a grade of C or better, or instructor permission	Yes	Yes
	WR122 OR WR227	Argument, Research & Multimodal Composition* OR Technical Report Writing*	4	F, W, S, SU	WR 121 with a grade of C or better Successful completion of WR 121 (4 credits) with a grade of C or better	Yes	Yes
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
16							
Term 3	CS 162	Computer Science II	4	S	CS 161	No	Yes
	MTH 252	Calculus II	4	W, S	MTH 251 with a grade of C or better, or instructor permission	No	No
	CIS 275	Introduction to Data Management Systems I***	4	S	CIS 133 or instructor approval. Advisor can approve if CS161 is taken.	No	Yes
	Elective	Arts & Letters Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
15							
Summer							
0							
Term 4	CS 260	Data Structures	4	F	CS 162 and MTH 111 or higher or instructor approval	No	Yes
	HPE 295	Wellness & Health	3	F, W, S, SU	None	Yes	Yes
	PH 211	General Physics w/ Calculus	5	F	MTH 251	No	No
	Elective	Arts & Letters Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
18							
Term 5	PE102 OR higher	Physical Education***	1	W	1-4 Credits. Exclude PE199 or PE299.	Yes	Yes
	PH 212	General Physics w/ Calculus	5	W	MTH 252	No	No
	SP 111	Fundamentals of Public Speaking	4	F, W, S, SU	WR 095 with a grade of C or better or placement by approved measures; AND RD 090 with a grade of C or better or placement by approved measure	Yes	Yes
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
13							
Term 6	CIS 151C	Introduction to Networks***	4	S	CIS 120 or instructor approval. Advisor can approve if CS161 is taken.	Yes	Yes
	CS 271	Computer Architecture & Assembly Language***	4	S	CS 162 or instructor approval. May not offer every year, depanded on enrollment.	No	No
	PH 213	General Physics w/ Calculus	5	S	PH 212	No	No
	Elective	Arts & Letters Elective**	3	F, W, S, SU	See Advisor	Yes	Yes
16							
Total Credits			93				

Program Advisor:

NOTES:

Note that each CS core course must be completed with a grade of "C" or better. Many CS programs have competitive admission. Minimum GPA and grades will not generally be high enough to guarantee admission into any transfer institution.

Y	16	20
N	9	5
%	64%	80%

* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

*** **Recommended Computer Science Elective**

Faculty Advisor: John Blackwood 541-440-7686 john.blackwood@umpqua.edu

Faculty Advisor: Vincent Yip 541-440-7886 vincent.yip@umpqua.edu

If students choose to vary from this suggested sequence, then prerequisites and term availability must be watched closely because class time conflicts may arise, and/or desired courses may not be available.

Approved Electives		
CIS125D	Computer Applications – Database	3
CIS125S	Computer Applications – Spreadsheet Software	3
CIS151C	Introduction to Networks	4
CIS195	Authoring for the Web I	4
CIS240M	Installing & Configuring Microsoft Windows Server	4
CIS275	Introduction to Database Management Systems I	4
CIS276	Introduction to Database Management Systems II	4
CIS295	Authoring for the Web II	4
CS271	Computer Architecture & Assembly Language	4
ENGR201	Electrical Fundamentals I	4
ENGR271	Digital Logic Design	3
ENGR272	Digital Logic Design Lab	1
MTH112	Elementary Functions	4
MTH231	Elements of Discrete Mathematics I	4
MTH253	Calculus III	4
MTH254	Vector Calculus I	4
MTH261	Linear Algebra	2
PE102	Physical Education or higher (exclude PE 199 or PE 299)	1 to 4
WR122	Argument, Research, & Multimodal Composition	4
WR227	Technical Report Writing	4

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	HPE 295	Wellness & Health	3	F, W, S, SU	None	
	WR 121	Academic Composition*	4	F, W, S, SU	WR 115, RD 90 each with a grade of C or better, or appropriate placement test scores or placement by multiple measures; and basic computer word processing skills	
	Elective	Biological Science with Lab	4	F, W, S, SU	See Advisor	
Term 2	CS 161	Computer Science I	4	W	MTH 111 or equivalent	16
	MTH 251	Calculus I	5	F, W	MTH 112 or with a grade of C or better, or instructor permission	
	WR122	Argument, Research & Multimodal Composition*	4	F, W, S, SU	WR 121 with a grade of C or better	
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	
Term 3	CS 162	Computer Science II	4	S	CS 161	18
	MTH 252	Calculus II	4	W, S	MTH 251 with a grade of C or better, or instructor permission	
	CIS 275	Introduction to Data Management Systems I****	4	S	CIS 133 or instructor approval. Advisor can approve if CS161 is taken.	
	Elective	Arts & Letters Elective**	3	F, W, S, SU	See Advisor	
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	
Term 4	CIS195	Authoring for the Web I	4	F	CIS 120 or instructor approval. Advisor can approve if CS161 is taken.	16
	CS 260	Data Structures	4	F	CS 162 and MTH 111 or higher or instructor approval	
	Elective	Physical Science with Lab	5	F, W, S, SU	See Advisor	
	Elective	Social Sciences Elective**	3	F, W, S, SU	See Advisor	
Term 5	CIS 295	Authoring for the Web II	4	W	CIS 195 and CIS 275 or instructor approval.	16
	MTH 231	Elements of Discrete Mathematics I	4	W	MTH 111 or MTH 105T or equivalent with a grade of C or better, or instructor permission	
	SP 111	Fundamentals of Public Speaking	4	F, W, S, SU	WR 095 with a grade of C or better or placement by approved measures; AND RD 090 with a grade of C or better or placement by approved measure	
	Elective	Biological Science with Lab OR Physical Science with Lab	4	F, W, S, SU	4 - 5 credits. See Advisor	
Term 6	CS 271	Computer Architecture & Assembly Language	4	S	CS 162 or instructor approval. May not offer every year, depanded on enrollment.	15
	MTH 265	Statistics for Scientists and Engineers	4	S	MTH 252 with a grade of C or better	
	WR 227	Technical Report Writing*	4	F, W, S, SU	Successful completion of WR 121 (4 credits) with a grade of C or better	
	Elective	Arts & Letters Elective**	3	F, W, S, SU	See Advisor	
Total Credits		96				

Program Advisor:

NOTES:

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* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

*** **Recommended Computer Science Elective**

**** **Prerequisites of required courses**

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CIS125S	Computer Applications – Spreadsheet Software	3
CIS151C	Introduction to Networks	4
CIS240M	Installing & Configuring Microsoft Windows Server	4
CIS275	Introduction to Database Management Systems I	4
CIS276	Introduction to Database Management Systems II	4
CIS295	Authoring for the Web II	4
CS271	Computer Architecture & Assembly Language	4
ENGR201	Electrical Fundamentals I	4
ENGR271	Digital Logic Design	3
ENGR272	Digital Logic Design Lab	1
MTH112	Elementary Functions	4
MTH231	Elements of Discrete Mathematics I	4
MTH253	Calculus III	4
MTH254	Vector Calculus I	4
MTH261	Linear Algebra	2
PE102	Physical Education or higher	1 to 4
	(exclude PE 199 or PE 299)	
WR122	Argument, Research, & Multimodal Composition	4
WR227	Technical Report Writing	4